

ABSTRACT OF THE DISCLOSURE

A WDM (Wavelength Division Multiplex) terminal device located in a WDM network includes a multiplexing unit that multiplexes a wavelength of a client signal having a single wavelength or a  
5 wavelength of at least one of a first plurality of client signals whose wavelengths are multiplexed, to wavelengths of a second plurality of client signals received with their wavelengths being multiplexed,  
10 and transmits the second plurality of client signals. Thus, the WDM terminal device can multiplex wavelengths of a plurality of client signals received from a metro WDM terminal device located at a distant place, to a wavelength of another client  
15 signal without separating the plurality of client signals by each wavelength, thereby achieving accommodation of a plurality of client signals whose wavelengths are multiplexed, at low cost.

Approved for Release